

# Meeting Minutes



**Date/Time:** 5 June 2017

**Location:** Conference Call

**Contract No.:** W912DW-16-C-0012

**Written By:** H. B. Simpson

**Present:** USACE – Rod Zion; Karl Kunas; Darrick Godfrey  
EPA – Kim Prestbo; Ed Moreen  
Idaho DEQ – Don Carpenter  
Amec Foster Wheeler – Eric Reitter; Spencer Archer; Hallie Bevan Simpson

**Subject:** **Weekly Status Meeting No. 14**  
**Bunker Hill Central Treatment Plant Upgrade Project, Kellogg, Idaho**

## ACTION ITEMS

No.	Item	Responsible	Anticipated Completion Date
5	Submit Pilot Testing Work Plan	AmecFW	TBD
20	Resubmit Submittal Register	AmecFW	6/9/17
28	Provide quarterly cost summary for USEPA reporting	AmecFW	TBD
45	<del>Resubmit O&amp;M Sampling and Analysis Plan</del>	<del>AmecFW</del>	<del>5/31/17</del>
46	Respond to Design Package 1 comments in DrChecks	AmecFW	6/6/17
47	Confirm IDT approval of ROW	AmecFW	TBD
48	Update and Upload Project Schedule to QCS	AmecFW	6/9/17
49	Provide design schedule update to USACE	AmecFW	6/9/17

## SUMMARY OF CALL

- I. Safety Moment – Eric was using a circular saw to cut plywood over the weekend. Despite wearing ear muffs, the noise still seemed quite loud. Eric decided to see how much protection was provided by ear muffs versus ear plugs. He found that his ear plugs would protect against about 27 decibels (dBa), whereas his ear muffs were only protective for about 24 dBa. Ear plugs and muffs vary in their protection levels. To reduce noise to the typical action level of 85 dBa, some equipment may require the use of both ear plugs and ear muffs, depending on the noise generated by the equipment.
- II. Schedule Review/Update
  - a. Design Package 1 – AmecFW has been responding to comments received from USACE. USACE noted that 23 comments are outstanding in DrChecks. AmecFW plans to complete responses today. Within a week of receiving responses, USACE will close out comments or determine if they would like additional clarification. Based on the responses, USACE will determine if a design review conference is needed.

- b. Design Package 2 is underway; submittal will be delayed by one or two weeks (anticipated submittal date is June 19) from the original Design Packaging Plan date. The delay is associated with the construction debris encountered during the geotechnical investigation.
- c. Design Package 3 is underway and ahead of schedule. This package is anticipated to be submitted on or around June 19.
- d. Design Package 5 is underway. Subsurface exploration logs are in progress and will be submitted before the end of June.
- e. Design Package 6 is underway. The Slurry Wall monuments survey was submitted to USACE and IDT in May.
  - 1. EPA asked if anyone had communicated with Matt at IDT.
  - 2. AmecFW has communicated directly with Matt. Late last week, Matt indicated that he should be able to review the survey and provide any comments in the next couple of weeks.
- f. Initial Project Schedule has been accepted by USACE. AmecFW is now updating the Initial Schedule with current dates.
  - 1. The Updated Project Schedule will be updated and uploaded this week.
  - 2. Karl noted that he needs the current Design Packages submittal dates so the review teams can anticipate them.
- g. Upcoming work includes development of Activity Hazard Analyses, Accident Prevention Plan (APP), Filter Pilot Test, Environmental Protection Plan (EPP), Stormwater Pollution Prevention Plan, Work Zone Boundaries map(s), Decontamination Facilities map, Construction Site Plan, and a Traffic Control Plan for 2017 work.
- h. Crane Operators qualifications won't be required in 2017.
- i. The Contractor Quality Control Plan is expected by the end of June for 2017 construction activities.
- j. The Operations and Monitoring Quality Assurance Project Plan and Sampling and Analysis Plan were resubmitted yesterday.
- k. The Submittal Register has been updated with dates and is being reviewed at this time. This is expected to be resubmitted by the end of this week.
- l. Fire Protection Specialist was submitted with a cross-reference to the DQC Plan.
- m. The Waste Materials Disposal Plan, Waste Management Plan, Decommissioning and Demolition (D&D) Plan, Staffing Plan, Field Sampling Plan, and O&M Philosophy are

underway. The D&D Plan will include sludge removal for 2017; a separate D&D Plan will be prepared for demolition activities planned for 2018.

- n. The BIM Project Execution Plan is underway.

### III. Review Meeting Minutes from Last Week –

- a. Meeting minutes will be resubmitted to clarify wording that AmecFW is responding to comments, not backchecking comments as backchecking is USACE's responsibility

### IV. General Topics/Questions

#### a. Test Pitting Schedule

1. Four test pits are planned in the CTP area to investigate the refusal that was encountered during geotechnical drilling: one near the proposed reactor location and three near the proposed thickener and filter building.
2. The test pitting plan will be submitted to USACE today.
3. Work is tentatively scheduled for Tuesday (6/6) and Wednesday (6/7).

#### b. Disaster Recovery Plan

1. AmecFW intends to include this in the APP, with submittal of a 4025 form cross-referencing this.
2. USACE is amenable to this approach.

#### c. Contaminant Prevention Plan (CPP)

1. AmecFW noted that this could be part of the EPP or APP.
2. USACE agreed that the CPP could be included in the APP, with submittal of a 4025 form cross-referencing this.

### V. Submittals/Serial Letters

#### a. Flocculant Change

1. AmecFW submitted a flocculant change request.
2. USACE anticipates providing a response today. It was noted that sludge monitoring explanations were not included in the change request.

### VI. Review Action Items – Action Items were not discussed on this call.

### VII. RFI Update

- a. Four outstanding RFIs are currently under review by USACE. USACE has provided responses to several; AmecFW will download and distribute those responses.
- b. RFI-0018 – AmecFW submitted a RFI regarding a potential conflict between the USACE specifications and the DWR well guidance documents.

1. IDEQ is aware of this RFI and will review the requirements this week.
2. IDEQ requested a timeline for when a response is needed and a map to support their review of this RFI. AmecFW referenced the Proof of Concept drawings and will provide a figure showing the proposed well locations.

#### VIII. Plant Operations Update

- a. AmecFW provided an update on CTP O&M.
- b. The mine stopped pumping Saturday morning and resumed pumping Sunday evening. There has not been any communications from the mine. When flows decreased, they decreased to approximately 1,000 gpm; flows returned to 1,840 gpm.
- c. AmecFW is considering reducing the reactor pH setpoint from pH 8.5 to pH 8.4.
- d. Lime Silo A auger failed yesterday afternoon. Operators transferred operations to use of Silo B, which had the former Graymont Lime in it instead of the new Pete Lien lime. The auger failure will be investigated today/tomorrow to determine the cause of failure.
- e. Following the delivery of Pete Lien lime at the end of May, no notable water quality changes have been observed. Effluent metals concentrations remain well below effluent limits. Operators have noted that it seems more grit is being collected from the Pete Lien than had been collected from the Graymont Lime. This will be tracked and evaluated moving forward.
- f. The OMER tracking spreadsheet has two identical sheets. One tracks costs, and one tracks costs that exceed \$1,000 and trigger an OMER.

#### IX. Changes

- a. Lime Slurry Tank Repairs Proposal
  1. Proposal was submitted to USACE yesterday. Costs were higher than initially anticipated.
  2. AmecFW had not anticipated the pricing, especially with respect to the need for a temporary lime slurry system, the length of time needed to complete the work, and distance to the site from Coeur d'Alene, Spokane, and/or Missoula.
  3. AmecFW looked for local businesses to meet the project needs (e.g., local welders), but many local business did not meet the contracting requirements of AmecFW. Many contractors also noted that they were busy and provided no-bid responses.
  4. USACE noted that the cost exceeded what they had anticipated as well. They are considering alterations to the scope, including potential in-mine storage. To evaluate this, the timeframe would need to be known.
  5. The 29-day anticipated duration for temporary lime slurry system is based on the need to decommission the existing lime slurry tank, clean out the existing

tank, perform welding repairs (approximately 5 days), and perform the coating work (approximately 5 days).

6. USACE asked if AmecFW had considered performing two separate scopes of work – the first to evaluate the existing tank and the second to perform the repairs. There may be an opportunity to avoid the need for a temporary lime slurry system by performing a low-flow shutdown of the Central Treatment Plant.

#### X. Other Items

- a. Signage for Trail Closure – AmecFW proposed signage would be needed in August/September. IDEQ requested that notifications be posted prior to the closure. IDEQ also sends out a bulletin and would like to provide the dates and signage language in their bulletin.
- b. Billboard Demolition – AmecFW does expect to impact all billboards that are allowed to be affected. This would occur in 2018. AmecFW anticipates submitting a summary of the impacts in autumn 2017, when the slurry wall design is being finalized.
- c. Basin Bulletin – The next edition of the Basin Bulletin will be published in July. This is a three-times per year EPA publication. USACE has invited AmecFW to provide a short article (approximately 200 words) regarding the work. USACE requested that AmecFW provide a draft to USACE for review prior to submittal to EPA.